

SEQUENCE LISTING

<110> Greenspan, Ralph J.  
Edelman, Gerald M.

<120> Method For Functional Mapping of An  
Alzheimer's Disease Gene Network and For Identifying  
Therapeutic Agents for the Treatment of Alzheimer's Disease

<130> P-NI 4577

<150> US 09/490,243

<151> 2000-01-24

<160> 80

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<210> 1

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<212> DNA

<213> Drosophila melanogaster

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<212> DNA

<213> Drosophila melanogaster

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atttaagcgc aaaagttcaa ttaataaaaa ttagaatttt aataactaaca taatttggac 180
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aatcaattt ccataacaac cgct 264
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<211> 367

<212> DNA

<213> Drosophila melanogaster

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atttgatttg ttactaatta ttcatatata gagttgtata tatatgcgta tgtatatata 180  
aatagtccaa attatgttaa tattaaaaatt ctaattttta ttaattgaac ttttgcgctt 240  
aaatttagca atttatttgt tatctttttc taagtttatt tttttccttt ttcggttcaca 300  
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<211> 483

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(483)

<223> n = A,T,C or G

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ccgaatccag naanatatcc ccgtcaanaa aaaaaacata taaaatatga aatggtacat 180  
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aaaacaggat acaagccact tatcctaaca aacgccaggc tacactgaga aaataagcat 360  
cgngagttgg tatggatagc agaaattacc catattcggtg gactaaagggt ggtgtactga 420  
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<210> 5

<211> 395

<212> DNA

<213> *Drosophila melanogaster*

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aaaaaaaaac atataaaata tgaatgtaca taaaaaatatg tccatccaac caaccaacca 180  
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ccaaaatgta actaaaacca ttgtgaaaac agatacaagc cacttatcct aacaaacgcc 300  
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<210> 6

<211> 188

<212> DNA

<213> *Drosophila melanogaster*

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ttagaacg 188

<210> 7

<211> 186

<212> DNA

<213> Drosophila melanogaster

<400> 7

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ctgggtttatt aaatgttagc taagtttaaa ttatgtattt acagatgctg tgtgctagct 120
cgaaagtgat aatttgtggt attttttgtg tatgggattt tgataaatgc cttatgagtt 180
tagaac 186
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<210> 8

<211> 297

<212> DNA

<213> Drosophila melanogaster

<400> 8

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agttaagatt agccttcttc ttgcctgca cttccatgat ggcgtccatg aagtcttcgt 120
gtgtaaccga gttggcggag cgacgcagtg cgatcatacc agcttccaca cagacggctt 180
tgactgggc gccgttgaag tcatccgtgg atcgggacaa ttcttcgaaa ttcacatcat 240
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<210> 9

<211> 710

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

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<223> n = A,T,C or G

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caactcagat cgaaactgaa aaattttaca tttccatggt ttattttaat gtgaagttaa 180
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ataccacttc cacacaaacg gtttgactg ggcgcggtt aatcatccgt ggatcgggac 360
atcctcgaaa tcacatcatg ctaactttca tttacgcaat gaattgcata atacggccgg 420
cttccccctt ggatttgaaa ncatctacat ccnangacca accccccaac cgatccaaan 480
tccccaatgg tcccaatcca aggnaattcn aattccnct gnggcccact gcntaaggcc 540
atccccattn atcttaatcc ggcgcnttnn ctctnaggaa ccgnttccat atcctgncnn 600
cctccttggt tacaaagccc antccccatn ccnaaggaat gaccttcgct accgggtggt 660
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<210> 10

<211> 479

<212> DNA

<213> Drosophila melanogaster

<400> 10  
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aactcagatc gaaactgaaa aattttacat ttccatgggt tatttttaatg tgaagttaaa 180  
ctgcaaattt ctagtctaag cgtagtagtt aagattagcc ttcttcttcg cctgcacttc 240  
catgatggcg tccatgaagt cttcgtgcgt aaccgaattg gcggagcgac gcagtgcgat 300  
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ggacaattcc tcgaaattca catcattgct aacgttcatt ttacgcgagt gaatctgcat 420  
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<210> 11  
<211> 355  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 11  
tggccccagg acgagcggtt cctcgcccga ggacgatata cctgccccca taataatcct 60  
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aaagggacag tggagtcagt ggtcggcaaa ggtgggtccca ggacgagcgt ttgcctcgcc 180  
cgaggacgat acaccctaac ccataacatc ataatcccag ccgggcgcgc tcgtcgtccg 240  
tgtcaaggag caagcaggac cacggaggca aggcgttgca ggagaaatgc cgcaggagca 300  
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<210> 12  
<211> 171  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 12  
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aatgtaacac cgtctagaca ttgacataat ccctgttcaa tatcacgcaa ttttaaacca 120  
tccaacggca gcataaattt cttctccttc tcacccctgt ccttacacac a 171

<210> 13  
<211> 170  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 13  
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ccaacggcag cataaatttc ttctccttct catcctcgtc cttacacaca 170

<210> 14  
<211> 162  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 14  
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aatgtaacac gtctagacat tgacataaat ccctgttcaa tatcacgcaa ttttaaacca 120  
tccaacggca gcataaattt cttctccttc tcacccctgt cc 162

<210> 15  
<211> 249  
<212> DNA  
<213> Drosophila melanogaster

<400> 15  
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ggataaamat agtaaaggaa gaaagtgtgc atggaattag aaattaggaa ttaggttttt 120  
ttddtttttca gataaaagga maaagaagga aaaattttaa gaaaggatat ggaaaaatga 180  
gagaagaaat tatagagaaa ataatgcatg attgagaatg aagtaagaat tgagaggaat 240  
waaattaag 249

<210> 16  
<211> 709  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1) ... (709)  
<223> n = A,T,C or G

<400> 16  
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gcaaacgttt tcgcagcgcc agttgcgacg ccaaactttt tcgttcataa acggcggtcca 240  
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tacaantcnc gaagggcaat tctgcanata tccatcacac tggcggcgct cgaacatgca 360  
ctananggcc aattccccta tagtgatcta ttacaatcct ggcgtcttta cactctgann 420  
ggaaaccggc ntaccaatta tcnctgacca tcccttcnca cngnttnaac aaagccnga 480  
cccccanttg ccccgaaagga aggaccctgt acgccttacc gnggtgngtn ccctactac 540  
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cngccancna ntatnggagc cttggcccca aagntcccaa tgatctcnaa ngactcncga 660  
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<210> 17  
<211> 468  
<212> DNA  
<213> Drosophila melanogaster

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cttaggtacg aattcacgaa gggcgaaattc tgcagatata catcacactg gcggcgctc 360  
gagcatgcat ctagagggcc caattcgccc tatagttagt cgtattacaa ttcactggcc 420  
gtcgttttac aacgtcgtga ctgggaaaac cctggcggtta cccaactt 468

<210> 18

<211> 416  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 18  
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agacacacac acgcaacaca cacagacaca ttcaacttaa agtgcgtaac ataaagtaaa 180  
ataaataaat gaaaacacat taacacgaac aaaacaataa tcaagaactg gagcggattg 240  
ggtttcgttt tccagcgatt acctggagat caccatggca accagtcaca ctcatattaca 300  
cttggaatgc atgggagttc ttctatcaac taacaaatcc tatttcatat acaacacggt 360  
aactatgttt gcttggttag ttcgctttcc tgcgcttgt tataagtaca caatat 416

<210> 19  
<211> 286  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 19  
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ctgtaacttg aatgtgggta agtaaagagg tgcatatata tttttttaca cgcgtatata 120  
gtttgcgttt ttcgctttcc acacaagata cgtacttcgt agccccctt cccctttcca 180  
aatactgtat cacaagatc ataactcaaa atgctattgc tttgacttac atcttatttc 240  
gggtggtgtca actgcgccac catacgaaaa tacataaatt atagcg 286

<210> 20  
<211> 706  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1) ... (706)  
<223> n = A,T,C or G

<400> 20  
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gtttgtggct tgccctttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180  
taacaataat attgctggaa taaacacatc caaggtaata ctacagacagc actcgtcatc 240  
gccctcatcc angatattgg cctgctggcg cacatcgatg ccctgctgca caactccgcc 300  
ttcttggttt cggcttgaag ncttnccttc ctctgttctn ggatctcctc antccgtaaa 360  
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tccatggtaa caaagcccat ccccaatncc cangangacc ctgcgtaccg ggttggtcct 660  
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<210> 21  
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<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(459)  
<223> n = A,T,C or G

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atacatactt ttctgcttat tgggaatagtc tacacacttt tgctacatag gtacaattaa 120  
gtttgtggct tgccctttgc gaattacaat atggaaacga tacagaacag aaaatagttt 180  
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gattcggggg atgatcacat gctcaatggc gttttggta 459

<210> 22  
<211> 483  
<212> DNA  
<213> Drosophila melanogaster

<400> 22  
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<210> 23  
<211> 514  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(514)  
<223> n = A,T,C or G

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gttgcggtat gatccaactc ccagataag cagattttatg acctaaacac cgaaactcca 420  
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gcnattcctc accgcggggc cycaacatct ctaa 514

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<211> 430  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(430)  
<223> n = A,T,C or G

<400> 24  
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aatacggctg ctgttgctgc tgcctgactac tgaacatat tttaatttat atttcttgga 180  
gtgtgtgcgg cttgtcaatg gctgggaatc taagaaattt atgcatgact gcaacagggt 240  
caagttgcaa agcccttagc ctttaatgcc atccagctgc cgggaaagcc gggaaagctg 300  
agaaaacaaa actgactcgt actgaagctg aaactgaaag aacttttagt cctattccrg 360  
gggttnccgga tggatccaac yccccagata agcagattta tgacctaac accgaaactc 420  
aaataactgg 430

<210> 25  
<211> 213  
<212> DNA  
<213> Drosophila melanogaster

<400> 25  
aacatttttag attgaaacac attccaaaag tctaagactc tagcttcaca acggtcgtct 60  
tctcggacac gtacagbbcg tcaaggaact tacggatatc cttgttcttg acgstcgtgg 120  
actgctggat gagggcgga gatccggaga cagactcaat atcgttccgt amscgtaagg 180  
tyggccctct ggavagttag gtcacccacc gcg 213

<210> 26  
<211> 365  
<212> DNA  
<213> Drosophila melanogaster

<400> 26  
aacatttttag attgaaacac attccaaaag tctaagactc tagcttcaca acggtcgtct 60  
tctcggacac gtacagaccg tcaaggaact tacggatatc cttgttcttg acggtcgtgg 120  
actgctggat gagggcgga gatccggaga cagactcaat atcgtttccc tccacgataa 180  
gttcgtcctt ctgggcagtg gagttgacca cggtgacgcc aggagccatc tccacacgac 240  
ggatgtactt ctcacccaag aagttacgga tctcaatgac cgtgttggtc tcggaggtga 300  
cacagttgat ggggaaatgg gcgtacacag cacgcatctt gtactggatc cgaattcaca 360  
aaggg 365

<210> 27  
<211> 212  
<212> DNA  
<213> Drosophila melanogaster

<400> 27  
acatttttaga ttgaaacaca ttccaaaagt ctaagactct agcttcacaa cggtcgtctt 60  
ctcggacacg tacagbbcg caaggaactt acggatatcc ttgttcttga cgstcgtgga 120



ctgctggatg agggcggcag atccggagac agactcaata tcgttccgta mscgtaaggt 180  
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<210> 28  
<211> 691  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(691)  
<223> n = A,T,C or G

<400> 28  
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gtttgtggct tgccctttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180  
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<210> 29  
<211> 677  
<212> DNA  
<213> Drosophila melanogaster

<220>  
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<222> (1)...(677)  
<223> n = A,T,C or G

<400> 29  
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aaacattgta nacnaagcat gtggaattaa agccaaacac nattttntg ccnatactct 120  
tgccagaga ttgtcaaggc cgtgcatctt acgcgagtaa atcaaggaaa atgtgagcan 180  
gttaaagaaa atttctacct actaaaaaca atattaatgc atctccaaat attagtttct 240  
tcctacagga tggtagatgg ttttggaaat gtatcttttt atgtacctgc tctttggtgt 300  
canatecnaa tncgaaggc caattctgca aatatccaca cctggcgggc cgctcgaaca 360  
tcttctaaan ggccaatccn ccnattatga atcctatana atcctggcc gtcttttaca 420  
ctctganggg aaaccnggc ttnccactaa ccctgcacct ccttccnct gnttatacaa 480  
aagcncatc cctccacatt gccctaagn atgacctct cgcctanccg gggtntggtc 540  
entactcttc nctaccccc tcttctctt ccttccggtc cnactaaggc cctggcattt 600  
tgcccccaat aagngnctt gccnaagtc ccaatgtctc nangactccg aacccncccc 660  
ctaaaggacn cctgaaa 677

<210> 30  
<211> 141

<212> DNA

<213> *Drosophila melanogaster*

<400> 30

```
atgatataat ggattggtaa tcaattggca tcgaaattaa tttagatat aaacaccact 60
taacgccgcc tcaacctaata tactgtctgc atatgcaata gaaaacgtat ataaattaat 120
taaataaaaa aaaaggaaag t                                     141
```

<210> 31

<211> 322

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 31

```
atttcgcgac aggcttcggc acgccagtat ataaccctaaa acacacnaac ntcaggggct 60
ggancgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgcc ccacaccaan 120
caaaaccggc cgcttggtga natgacatag gcgcgaccan ccaactgacc cggctgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcttt agtttgcccc 240
gctatccnc acacaaacc agantggggg tctatggaag accacaagtn gttgcgttg 300
aactgctaaa natttnnact gt                                     322
```

<210> 32

<211> 308

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(308)

<223> n = A,T,C or G

<400> 32

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat tatttacatg 120
tttacatata cgaacatcca aagcaaagg atatacacgt ataggactca acatttaca 180
attcaatatt cttatatgtg gaaagcanag cgttacgatt atctcccanc taactggaag 240
cgattgaatg tctatacatn atttgaatg ccaataaaaa taaaatatat cacgttatat 300
taaacagt                                     308
```

<210> 33

<211> 201

<212> DNA

<213> *Drosophila melanogaster*

<400> 33

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat atatttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
```

aattcaatat tcttatatgt g

201

<210> 34

<211> 187

<212> DNA

<213> Drosophila melanogaster

<400> 34

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgcg tatttgaacc acgtacttat atattttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
aattcat 187
```

<210> 35

<211> 687

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(687)

<223> n = A,T,C or G

<400> 35

```
agaattacca cgcgaaacaca attctgtttt attgttttta atacatatatt aatctttgcg 60
anaagagcta gtgtaggtag tctggaattt ttcatatatt taacgatatc cattggtaat 120
gattacatag ttggattaga actaataactt gtagcagtta atggaatgtt caccaccgct 180
ctggatcatc gttgctggtc agctggcaag gcatcatcac gcacttttcc atgcggaacgc 240
natecttgca cttgtggctc aatcggtgtt cattaagggtt cgggttcggt ggcgaaacggc 300
attatcgcca cagtttgagg tgcattggtgt ccaagcggaa cactcccaat tancnacct 360
cgtcctgagg tccggttgcg gactcttacc acatccttcc tctccaatcc ccgtccctga 420
ttgattacnn tcatccaccc ctggtaacac nattccaact tccagttgct tggaaatgct 480
gncacctact ccgaatacga cncctccctc ccatgaaccn ccccagagct tgcacgtgga 540
cncatcatc ccaagnaatc tgcattctcc cgcggcncac tcttaagcca tccccaatat 600
cttaatecgc ccttaatcta tgaacgntt ccatacctgn cancctccct ggtaaaaanc 660
ccatctccct tncnangan gaccctc 687
```

<210> 36

<211> 311

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(311)

<223> n = A,T,C or G

<400> 36

```
tcccatcaat tcgttactca tcaattgaaa tttcagattt ggtaatgcta aagggtatc 60
atgattgcag ttctatgaag tggatcaaag cgatttcggg tcaaagattg cgggtcgctg 120
ctagaaagat tgatctctag tgcttctcca gtgcttgctt agttcggcga gggcataacc 180
ttgatgcgct ccaaggcttg tttctccang gtctcgcggt gcttgggata ggcgatctgg 240
ataagttcgt acatcctctg gcgcacattc ttgccgaaca gcgaagcgat tccatgctcc 300
```

gtgacgactt a

311

<210> 37

<211> 670

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 37

```
cccatcaatt cgttactcat caattgaaat ttcagatttg gtaatgctaa agggctatca 60
tgattgcagt tctatgaagt ggatcaaagc gatttcgggt caaanattgc gggtcgctgc 120
tagtaaaata gtgatctcta gtgcttcttc agtgcttgct tagttcggcg agggcataac 180
cttgatgcgc tcgaagcttg tttctccagg gtctcggcgt gcttgggacg ggcgatctgg 240
ataagttcgt acatcctctg gngcacattc ttgccgaaca cgaagcgatt ccntgctccg 300
tgacnactta ntggacttng gcacgcgaan ttgacaaccc agcgccctgcc ttcacgttng 360
gaacaatctt gctctccctt tgttggtggt caatgcatgg cnataattgc acacccatcc 420
atcnaaacct ccncgtcccc naatnaattc acctntcccc naaccgggat taaanccgga 480
acatcatcta cncctgtcnt ccattccaat ccaagggaat ctnnattcac cngcgggcnc 540
caacatctcn aaggccatcc caatatnttt anacccggct cttaactcta tggaacnct 600
tncataacct gantccttcc ctgtttcaag ccncatcccc ncttcccaag ataccctcgc 660
taacgggtng                                     670
```

<210> 38

<211> 192

<212> DNA

<213> Drosophila melanogaster

<400> 38

```
accatttaat tattaaatat gatttattta tattaatatg tagtcaaaaa ctccgtgtta 60
gctttaattt acctacccca ctttggatct aaataaatat gttaaattgt gattcaagcg 120
tgataattta tttggaacag cattgcgaaa attgrgtagt ycataatgtt ttttcttcct 180
ggkcactgag ca                                     192
```

<210> 39

<211> 362

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 39

```
gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120
acatttcccc acctctgccg antgctgana gttaantcat gggaacagga natnccnctt 180
cccaaagggt aatattttnt gttnaaataa atactgcctc ttgcngttca acgtananan 240
anaaataccn aattccgaaa ggggccnaan ttncggggcn canannggcc tgcctcntag 300
```

ggaatcncca nccccctntt atangccctc ttccgcctat aaacttgtgc cngaancccc 360  
ng 362

<210> 40  
<211> 322  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(322)  
<223> n = A,T,C or G

<400> 40  
atttcnccgac aggccttcggc acgccagtat ataaccctaaa acacacaaaac gtcagggggct 60  
ggaacgcgtc actgccgtgc tcctccagcc ggcacagtca ttccccgccc ccacaccaag 120  
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggctgacca 180  
nacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttggccc 240  
gctatcccca cacanaaacc cacantgggg gtcnatggaa gaacacaagt ggttgcgtag 300  
aactgctaaa aatataaaac tg 322

<210> 41  
<211> 323  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(323)  
<223> n = A,T,C or G

<400> 41  
atttcgcgac aggccttcggc acgccagtat ataaccctana acacacaaaac ntcagggggct 60  
ggaacgcgtc actgccgtgc tcctccagcc ggcacagtca ttccccgccc ccacaccaag 120  
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggctgacca 180  
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttggccc 240  
gctatcccca cacagaaacc cagantgggg gtctatggaa gacnacaagt ggttgcgtag 300  
aactgctaaa aatataaaac tgt 323

<210> 42  
<211> 176  
<212> DNA  
<213> Drosophila melanogaster

<400> 42  
caagtgcggc ggcgacaaga aatccgcctg cggctgctcc aagtgaagctt tcccccaaaa 60  
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120  
actaaaacga catgttttct catttacaca ccctgcaata aatgtccaat taaagt 176

<210> 43  
<211> 323  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(323)  
<223> n = A,T,C or G

<400> 43  
atttcgcgac aggcttcggc acgccagtat ataaccctaaa acacacaaac gtcaggggct 60  
ggaacgcgtc actgccgtgc tcctccagcc ggacacagtc tccccgccc ccacaccaag 120  
caaaaccggc cgcttggtgca gatgacatag gcgcgaccag ccaactgacc cggtgacca 180  
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttgcccc 240  
gctatcccca cacagaaacc cacantgggg gcctatggaa gaccacaagt ggttgcggtg 300  
aactgctaaa aatataaaaac tgc 323

<210> 44  
<211> 176  
<212> DNA  
<213> Drosophila melanogaster

<400> 44  
caagtgcggc ggcgacaaga aatccgcctg cggtggtcc aagtgaagtt tccccaaaa 60  
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120  
actaaaacga catgttttct catttacaca cctgcaata aatgtccaat taaagt 176

<210> 45  
<211> 323  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(323)  
<223> n = A,T,C or G

<400> 45  
atttcgcgac aggcttcggc acgccantat atanccctaaa acacacaaac gtcaggggct 60  
ggaacgcgtc actgccgtnc tcctccancc ggacnngtcn tccccgccc ccacaccaag 120  
canaaccggc cgcttggtgca atgacataag gcgcgaccan ccaactgacc gggtgaccag 180  
acttgaccg tgcgccatca actggaatct tggccacaag cacagcanta gtttggtccc 240  
ctatccccac acatanaaacc cagattgggg gvvatatngaa naacacaagt ggttgcggtg 300  
aactgctaaa natatnaaac tgc 323

<210> 46  
<211> 362  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(362)  
<223> n = A,T,C or G

<400> 46

```

gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120
acatttcccc acctctgccg antgctgana gttaantcat gggaacagga natnccnctt 180
cccaaagggt aatattttnt gttnaaataa atactgcctc ttgcngttca acgtananan 240
anaaataccn aattccgaaa ggggccnaaa ttncgggcn canannggcc tgctcntag 300
ggaatcncca nccccttntt atangccctc ttccgcctat aaacttgtgc cngaancccc 360
ng 362

```

<210> 47

<211> 416

<212> DNA

<213> *Drosophila melanogaster*

<400> 47

```

agtttacatg tactttattc gttttgtata tcccagacag atagagttat ttattgaaca 60
cttcaactgg ctaggctgta ttagggctctg cttgtaactt ttgtgtcagt aaccactcta 120
aaatagtata atgctagtaa ttctacccat caacccattg tatacatact tatattcaaa 180
accctttcac cacattttcta agcctagatt atggataatg cctctaatat gtaacgagtg 240
cttaggtcac cttagccagc cgctggctga tgcattttctg gctgcgaagg tcgaaccaat 300
ttcccgact gcagtaatgc aaaaccgctt ttcccttcaa gcaaataaa tacttggtat 360
gctgcttgac gtctccaaat cgtgtatcct ctttcacttt ggtgcaatcg ggtacc 416

```

<210> 48

<211> 413

<212> DNA

<213> *Drosophila melanogaster*

<400> 48

```

caaatagttt acatgtactt tattcgtttt gtatatccca gacagataga gttattttatt 60
gaacacttca actggctagg tcgtattaga gtctgcttgt aacttttgtg tcagtaacca 120
ctctaaaata gtataatgct agtaattcta cccatcaacc cattgtatac atacttatat 180
tcaaaacctt ttcaccacat ttctaagcct agattatgga taatgcctct aatatgtaac 240
gagtgccttag gtcaccttag ccagccgctg gtcaatgcat ttctggctgc gaaggctgaa 300
ccaatttccc ggactgcagt aatgcaaaac cgcttttccc ttcaagcaaa cataatactt 360
gttatgctgc ttgacgtctc caaatcgtgt atcctctttc actttggtgc aat 413

```

<210> 49

<211> 885

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1) ... (885)

<223> n = A,T,C or G

<400> 49

```

rtnstartmn ctmrtnsttt ctamcmmntd skasamdsdy strmrtdaca stanyrmrma 60
chndsnnnng nagatacgcc aagctattta ggtgacacta tagaatactc aagctatgca 120
tcaagcttgg taccgagctc ggatccacta gtaacggccg ccagtgtgct ggaattcgcc 180
cttcgtgaat tcggatctga ctgcaagtgc ggcggcgaca agaaatccgc ctgcggctgc 240
tccaagttag ctttccccca aaaaagatct ggagtagagg cgctgcatct tgtctccgaa 300
ctgattttctg tataactccc aataactaaa cgacatgttt tctcatttac acaccctgca 360

```

```
ataaatgtcc aattaaagta aaaaaaaaca aaaaaaaaaa accgaattcc gaagggcgaa 420
ttctgcagat atccatcaca ctggggggccg ctcgagcatg catctagaag gcccaattcg 480
ccctatagtg attcgtatta caattcactg gccgtcgttt tacaacgtcg tgactgggaa 540
aacctgggtt tacccaactt aatcgcttg cacacatccc ctttcgccag ctggcntnta 600
caaaaaggcc cncgättgcc ttcccacant gccacctgaa tgggaatgaa ccccccgta 660
eggccttaac cngngtttgt ggttaccac ntacgcaacn tgcacccta cccncttcc 720
ttttctctt cccnttccgg ttccctcacc tantggggcc taggtcaatt tcttngcca 780
ccaaatntag tangtctttg cccccaaaag ttccctaatt gatcttctaa atganntcnn 840
gaaaccncac cgtntttant aaggatgcat cgcnnngtaa catcc 885
```

<210> 50

<211> 496

<212> DNA

<213> *Drosophila melanogaster*

<400> 50

```
cttgatccag caatctatth ttcaaaaacg ccaatgtcaa attttcttca gataatgtct 60
ctategctgt aataattcca tcgtaacacg aaggcaatgt gatcagtaga tgagaaatth 120
tatccatctc ttctatthtt gcaccagctg ccaacaattc acttataagt tcgtcaaaaa 180
tatgaaaatg gcttaatagt gacatctcac tcgatagctt cagagaaagc aaacgtthtt 240
gcagegccag ttgcgacgcc aaactthttt gttcataaac ggcgtccaaa ttctcaagaa 300
tctgacgcgc cgtaatgtcg cttgttgcca aatttaaaaa cgagtcgctt aggtacgaat 360
tcacgaagcc gaattctgca gatatccatc aactggcgcg ccgctcgagc atgcatctag 420
agggcccaat tcgccttata gtgagtcgta ttacaattca ctggccgctcg ttttacaacg 480
tcgtgactgg gaaaac 496
```

<210> 51

<211> 936

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)... (936)

<223> n = A,T,C or G

<400> 51

```
acatcaatgc tagtgettec ttttaccgaa aacctattga atacgctaaa aaattggaat 60
agtcgcaagc ggaagtcggc caaaaaaatc cttaagaatt ttggaaccag ttcttctact 120
tgtcgtatcg āaccaggcgc gtgtcgtcgc cgacctctc cagatccttt ggatcgcggc 180
ggaagcgata agtgcccaca tcctggttgg ccgattccgg caacgtcacc ttgatgccct 240
tgtactcggc tcgaccttec ctgacctccg gcaccgcgag ctccatctcg gccttgact 300
cgtcatcgth accaatgtcc acgtcctgga ccgttcttht gcacgggtggg atcctcctcg 360
tcctggttcc agccatcaaa tctcgatggg gacaatgggg ttgcccgcga cgcctacgac 420
ggnaactangt gcgccantag ggcaggatct ccacgggtaa tctccagaaa atcggaattc 480
tctggctggg ttggcagact caaactgcan tcccgcantc cacnaatgth tgggtcanct 540
ccntthgaaa tgggaggtat ggggccatca aggnagcgaa attcacnaaa nggggnaatt 600
ctgcannata tccatcacac tggngggccg ctccaagcaa tgcactaaa agggcccaa 660
ttctccta atangngagt ccgtattaca aattcaacng ggccgtcgtt ttanaangt 720
cggaatggg gaaaaaccn gggngntaan caaacttaat ccncttgga agcanaatcc 780
ccctthtcgc aagangggng tatnannaaa nagggccgca acgantgncc cttcccaana 840
antthccnan cctgaatngn gaatggacnc nccctgtnnn ggggcaatna acccgnggg 900
gttgntggta ncncaangt ntacggctaa anttgc 936
```



<210> 52  
 <211> 629  
 <212> DNA  
 <213> Drosophila melanogaster

<220>  
 <221> misc\_feature  
 <222> (1) ... (629)  
 <223> n = A,T,C or G

<400> 52  
 gtttgcaaac cttcctatatt aagtaaagtg tttgactctg gctcccaaag cttnccttgg 60  
 gaaacgggaa aaattctcta cantgtatat gtgcgcatgc aaactcattt ggtaaattac 120  
 acatnaataa atatgtataa caacaactan acatatgttn atggaaaata aaaattttca 180  
 gtaacgactn aactcgantg tccgtagcat naaggganna agtcgtcnan tgttattatc 240  
 taatttgcag cctgtattgt ccagatacaa tatgtnatng atgcantgta tatctnttgt 300  
 gtacatanat atatgtttta ggcgactcct atttntctgc ntgtgcatat cgatcaaattg 360  
 cctactttcn tgattgtttt gtgtgtttcc nctaaggaaa anatacatgt gttatatcny 420  
 naaaagaatt gtatcgattt aggtttgctt cctcaaactt ccacaaaaaa tcgntntcnt 480  
 ntanancna aaaatacgaa aatnnttgtg ccttaaaaaa aaacaatcga ggnaatccca 540  
 antcnaatg cggngtcact cngntaccat atgctcnaaa cttccctggt tcaaagccca 600  
 tnccacttn cccatganga ccttcgctg 629

<210> 53  
 <211> 977  
 <212> DNA  
 <213> Drosophila melanogaster

<220>  
 <221> misc\_feature  
 <222> (1) ... (977)  
 <223> n = A,T,C or G

<400> 53  
 cgtttgttgc cggatttgtt ggttggtagg ttgtttgtta gtagagagag agagaaccgg 60  
 tacgtataaa aactacgctc ccattgcccg attgttattg gagaattgag cccgccaccc 120  
 aagcagccac ccacgtatca cccgctcaca agagcggaaa atggatacag tccgggttcc 180  
 tggcggtaga accgtaattt ctgtgatttg ctttttttgt gttaagtaag tatttaataa 240  
 gtagattact gangtttgcg gctccgcggg cgattccctt aggcggccac ttcgctangc 300  
 ctccgnccca ttctgaacct catcctttgt gctgggectc atcaagcanc gaattcacna 360  
 agggcggaatt ctgcagatat ccatcacact ggccggccgt cgagcatgca tccgagaggg 420  
 cccaattccg cccctaatag ntgantccct attacaattc actgggcccg tegtttttta 480  
 naaccggtcn ntgactgggg aaaaccctgg gcggttnccc aaacttaatt cnccttgcaa 540  
 gcacantcnc ccttttcgcc aagctggng taattanaga aaagnaggcc cgcacccgat 600  
 nggcccttcc caacnngttg cgcaggccng aaannggccg anatgganag cgcgggggtg 660  
 agccggngca attaatccgc ngngggggtg ttggtgnggt taanccgcaa accgtgaccg 720  
 gentatacct tgccaagggc ccctanctga ccngntcnt tttcggtttt cnttcncctt 780  
 ccttttntcn ggnaaantt cgnncgggtt ttcnccggtc aaagctenta aatnnggggg 840  
 gntccctttt agggnttccn natttnaggg gctttnacgg gnaantcca anccccaaaa 900  
 aancttgctt nnnngtgaan gggtnnacgt tnntggggca nccccctna taaaggngnt 960  
 tnccnctttg nagatgt 977

<210> 54  
<211> 875  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(875)  
<223> n = A,T,C or G

<400> 54  
gcgatcttac aaaataaata acagcaaata gaaagataaa cttacatata agcgcaatat 60  
tcaaattgttt agtggcgtct acgaaatgtt tttcaattac tgctgggtgta agacacatag 120  
ataataaatg tgatgtgttt tgtgtgtttt tttangtttg gcctaccaga agtgtgctct 180  
aaatatatac caatgtgaat cgaaatcgta gctccttgcg ttctcctata tacatgtgca 240  
ccgtgagatc catagtccca tcgttttcgg ttttaagttac ccycgggcy yggcagattc 300  
gnaatcatat gcacgtataa agatagactg cgtgcacagc tccggccctc ctctctgggaa 360  
aacgcatagc cataccgaat tatccgatcc caangcatac atgggtagaa ngatctcggg 420  
tccgttcctc aacttcggga natgtcgcn cgntccggtc tccgtttccg cgaacagcct 480  
tccggtcagt gtcctannnc acgggtatta aggtaccaag tttgcaagat cacatcgatc 540  
agcagcgtgg gtaaatngng gcaccagcag tcaaggcang cgaattccac cnaangggcg 600  
aaattccggc aagaataatc catcacactg gggggccggc tcgaagcatg caatcctaga 660  
aggggccc aaattccggc natattgagg tccatattan aaaagttcaa tgggcccgtcc 720  
gntttannaa acgttcntga ntgggaaaaa ncccnggcgt ttacccaact taaatcnccc 780  
ttncagna atnccccctt tcagcnaanc tgggcgtaat nnncnaaana ngnccccgcac 840  
cggntgcccc tttcccaaca atttngcccc agnct 875

<210> 55  
<211> 465  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(465)  
<223> n = A,T,C or G

<400> 55  
ggggtcgtac tcggtgagga aatccaagcg cttatcatgc ttcactttgc agacaatcag 60  
tacatcgatt gatgaggaaa aagaagaccc cttgaatggg tcgataatca ttactgtcca 120  
actcgattag agctccctcg ttgaggaagg tcttgccctc cagattgcca ttgaagccct 180  
ggaccatttc cttgaccgcc cgcgtggcat ggctattctc cagatcctcc gtcgccgtan 240  
tgctctccgc ctccaaactc tctgccttca ggtgactgga agtcttgcca tccgtcatgg 300  
tggccanaat attgcgctgc tcaatcagaa tgtgcgacag ttgatacatt tccgactcga 360  
gatgtgatat ctcttggnc gtctgtataa actccatata gttctttttg catgtttgct 420  
tgagcgttgc tgccgtcggt tcgttgtagg cctcgatttc ctttt 465

<210> 56  
<211> 238  
<212> DNA  
<213> *Drosophila melanogaster*

<220>

<221> misc\_feature  
<222> (1)...(238)  
<223> n = A,T,C or G

<400> 56  
tgctgctgc tccttttggg actcctgggc ttcttagctg ctcccggcgt cgctcgcca 60  
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120  
aggtctccaa gctcacagca acgacctg tactacgacg ctccgattgg gaaaccatcn 180  
aagactatgt acgcctgacg tanagaatga aacaanaaag atttgaaacn cctanact 238

<210> 57  
<211> 237  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(237)  
<223> n = A,T,C or G

<400> 57  
gctgctgct ccttttggga ctcttgggct ttctanctgc tcccggcgtc gcctcgccat 60  
ctcgccacac tggaccagga aacggatcgg gatctggagc tgggtccgga aaatccgttc 120  
ngtctccaa gctcacagca cnacctgt actacgacgc tccgattggg aaaccatcga 180  
agactatgta cgctgacgt aaagaatgaa acaataaaga tttgaaacgc ctaaact 237

<210> 58  
<211> 238  
<212> DNA  
<213> Drosophila melanogaster

<400> 58  
tgctgctgc tccttttggg actcctgggc ttcttagctg ctcccggcgt cgctcgcca 60  
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120  
aggtctccaa gctcacagca atgacctg tactacgacg ctccgattgg gaaaccatcg 180  
aagactatgt acgcctgacg taaagaatga aacaataaag atttgaaacg cctaaact 238

<210> 59  
<211> 253  
<212> DNA  
<213> Drosophila melanogaster

<400> 59  
attacgtccc tgccctttgt acacaccgcc cgctcgtact accgattgaa ttatttagtg 60  
aggtctccgg acgtgatcac tgtgacgcct tgcgtgttac gggtgtttcg caaaagttga 120  
ccgaacttga ttatttagag gaagtaaaag tcgtaacaag gtttcgtag gtgaacctgc 180  
ggaaggatca ttattgtata atatccttac cgtaataaaa catttgtaat tatacaata 240  
aaaacaattt acc 253

<210> 60  
<211> 236  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(236)  
<223> n = A,T,C or G

<400> 60  
aacaggcaaa agcgatatca gtaataaaact aaacgcacca attgttttaa taaccaaagc 60  
gttaagaaaa aaatcaaaga caaagccacg gcaaaaggcg cagacaacaa gttgtttgct 120  
tttagttcgc gttctcctta ttttattttc cttccgttcg attttccacg cacgcgcgctc 180  
gcagaaacgt caaattgaaa acatcancag ttgaaagcca actgttgcat tctacc 236

<210> 61  
<211> 247  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(247)  
<223> n = A,T,C or G

<400> 61  
ttcaggcatc ttccttctaa ttctggctgt gggtttggca caaatgccgc tgcagggtggc 60  
cgcccagggc caaatggac attcgcaggg acagccgcca agaccgcaa atggcaatgg 120  
aaacggcaac canncagagt ggacaaggac aaagcgggca gaacaactag aactgggata 180  
tttctggagg gggacaacac acctcctcgc cactttccca gttacttaaa taaacacttt 240  
ccccagc 247

<210> 62  
<211> 767  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(767)  
<223> n = A,T,C or G

<400> 62  
ctaattgcgc tccatccatt tgttctctgc cggtgattcc cacatcttta atgggtggagt 60  
tatagaaatt attttgaata atcaaatacat ctccaattat cttcactatt tcactcaaag 120  
acatgggttt tagcgtgctg gtcgtgttgc ttccaattgc gctgacggct ttcgaccatg 180  
atccgaattc acnaaggcg aattctgcag atatccatca cactggcggc cgctcganca 240  
tgcattctaaa agggcccat tgcacctata ntgagtccta ttacaattca ctggccgtcg 300  
ttttacaacg tccttgaact gggaaaaccc tggccgttac cccaacttna tcgcctttgc 360  
agcacatccc cctttttccg ccagctnngn gttaatacca anaaggcccc ctawtawtga 420  
cactatagaa tactcaagct atgcatcaag ctwrratacc gagcawcgga tccamataag 480  
ataancagag accagcacia gtwtgtagcat rggabayata tacagcccat atacggagam 540  
ayatatcagg atatwtwtat atatatatat ataaacagaa acatacatat wtatacagta 600  
tatawgcama aaaaaatata ttatataaaa aaatatatac ragtatatam acacacacva 660  
gtatatatat atacgtacga rcacgtacgc atwarcacac acacrvcacg gacacacaat 720  
wtacrcgacg cagcacatt tahacacaat tahtatacac mtaccaa 767

<210> 63  
<211> 353  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(353)  
<223> n = A,T,C or G

<400> 63  
tawtgacact atagaataact caagctatgc atcaagctwr rataccgagc awcggatcca 60  
mataagataa ncagagacca gcacaagtwg tagcatrgga bayatataca gcccatatac 120  
ggagamayat atcaggatat wtwtatatat atatatataa acagaaacat acatatwtat 180  
acagtatata wgcamaaaaa aatacattat ataaaaaaat atatacragt atatamacac 240  
acacvagtat atatatatac gtacgarcac gtacgcatwa rcacacacac rvcacggaca 300  
cacaatwtac rcgacgcacg cacatttaha cacaattaht atacacmtac caa 353

<210> 64  
<211> 609  
<212> DNA  
<213> Drosophila melanogaster

<400> 64  
aatttttagc aatttcttat ttggtttttc ggtactttct ctagctgctt ttacttgatc 60  
gcacatatat atatatatat atattctata catatacata ttcatatgaa tatatctttt 120  
atcatcttta agaggagatt ttcagtgtct gtgtgggtgt gtgtgtttgt gtatgcttgt 180  
atgtgtccgg ttgtcctata gccatttgaa ccactaagaa tttgtagccg ggggaagttgc 240  
tatcaaatag agttgtctaa caacggctct ggctcgggtt gaaggaattt ttggaggctc 300  
aggggagcca acgacacaac gcaagctgcc ccaaaaaaac gggctaagaa atcagggttg 360  
gctaataaaa tacaagctt gcaagggcaa gaagaagaag aagactgagc actttctttt 420  
cggctgcac gcttacaacc agttcatagt gcgcctctct ccgcgcttct catcgatggt 480  
aggtaagccc ttgtttcaaa tgatgtgaat ggggtctaatt aggagtttgt ctgtctgtgt 540  
ctgtattgtg tctgcacaag ccagagaaaag agaggctggg gagaatggga gaaagtgggt 600  
gatgggagg 609

<210> 65  
<211> 554  
<212> DNA  
<213> Drosophila melanogaster

<400> 65  
taaacaaaag aaaaacaaaa ttccttttga aaatgcaaca ttaacaaata gaaagaaaca 60  
aaacagaaca aacacgtaaa gaaagaggcc actacaaaac tgaaaagaaa atgtgaaaaa 120  
tacaaaattt cgtttagcca ttaagattgt taagaatcag agtgtagat gtagatgagc 180  
aagtgaattt ttaggggctt tgctaccagt tttacctgct taatgaataa gggtaaaaca 240  
ttcatatgat tggattggaa gaatatatcg ggaatgctaa aaattattgg agtataagtt 300  
aaatacaact gcgatttata tgtttaagtt ttaaagtcta tattaacgat gtataacttt 360  
ggttcaatgt tttagtcata gggttttaca ttttaactcaa tgtggggaga gagcttttaa 420  
atagatcata cgaacctaca tattacattt atcggttatt ataattgttt tggccctctc 480  
atccaatata tacatatttt atggtcctag gttgtctttt ttaagttttc cattttgtta 540  
aagaaagttc gatt 554

<210> 66  
<211> 647  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(647)  
<223> n = A,T,C or G

<400> 66  
tggactgata tgcaaaaaag catttcacca cggcacctgc gcatataatg gtggatagcc 60  
tgtggaacgt ctttatctta tcgtgtaagg tggacacgac acgaacacta atcagagaaat 120  
agagcagttc taactcacaa tattgataaa caaagtaagg gccagccgag agatacacgc 180  
gcatttattg gcagcaaaaca gaagccaaaa ctacggacat gtccgaatcg ggaatcaaaa 240  
agttgagcca ggagcggact cgcgaaatgg tggctagtca ggaggacgag gaactggagt 300  
ccattgcaga gtctcgggtt gtggacagct tggactacga ttataccgag gaagaggagg 360  
atgccgacca aaataccagt gaagaaatca gcactatgac actaggcact caaatcgcta 420  
ccaaaaagca ttcgatcatc agcgacacca taagggacct tatgaactcg atcaacagca 480  
ttcagacttt gggcaacgtt aatataagca actccacgaa cgtccatata ggcaatgtta 540  
ccaatattaa tggaaatata caaatcatag ccgatggcct tactcaaaac cgaagagatc 600  
ggcggcatgt ttcaccaccg agagataacg cttccaaaac tccgacn 647

<210> 67  
<211> 600  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 67  
gttttcaaac gctcagcggg gaaaatgtaa cggacgaacg cggctggcaa aactcacaga 60  
cgggtacaaga gaaccagaat aaaaaaggac tccacaagaa acggcaactc gacaaaatct 120  
atacaaaagt gtctggctcg actgtgtgtg tgcttctgag tgaatgcttg tgtatgtgtg 180  
tataaattag tttggttgtg tgagttgtta gagtcaaaga actaaaataa gactttcaga 240  
tctagcaaat atgtcccata gttccccgag acgcgtatcc actgctgtag ccacttaaca 300  
aacaatgccc aaagttaagg cgacacggaat ctctaataat cgaaaccaat aaaatgagcc 360  
ccgttgctcg cagcaccaac actaacatcg gtcacatcga gcaggttgca ggcaatcaaa 420  
ggacaaatat agctgggata agatcaatcc aaattggaac aaccacaatc acaacgatat 480  
tgaaccagcg atgagatgga gcgtccgttg ggatgacgaa ctcagaaact cagtaaggga 540  
gctgcaactg atactgaaac tgaaacagaa accacagcgg cactcggaat ttagaggcga 600

<210> 68  
<211> 598  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 68  
ccgccgagcg cctgctgcag catcccttcg tccagtgcga gatgtccttg cgggtggcca 60  
aggagctgct gcagaagtac cagagtccca acccgagtt ctactactat ctcgatggcg 120  
atgaggagtc tgtggcagga gtgccacaac gcattgccag caaatgacg tcacgcacca 180  
atggcgtgcc agcgcaaaat cacacactaa aaacaggcat gacgacgaac tccacgtgga 240  
atgagcgatc ttctagtccc gaaacgttac ccagtgcacat gagcctctta caatatattg 300

atgaggagct gaagctaaga ggcaccttgc cactgaacaa cgacacccaaa gatccactcg 360  
gcgccgagtg cagctgctcc tcccacaatg gaggagccgc cggaggagga ggaggaggag 420  
gagttggagt aggagcaggc ggagcagccg cgagcggcag cagcagcagc agcggaggcg 480  
caacagtcgg caccactcat catcagcacc aacagcacca ccaggatcac caccatccga 540  
atcatctgca tcagcatcag gcccatcaat tgccgcaaca gcagcagcag cagtcaca 598

<210> 69

<211> 420

<212> DNA

<213> Drosophila melanogaster

<400> 69

cagctggacg cgccgagcat catggacgcc ttctctggaca ccgagcgaca gagaatcgag 60  
cgcgagcagc aattggcggc ggccgagcag gatgccgac gccgggaggga gcagaaccgg 120  
ctggaactgt accagatattt ggccgcctcc gagcctgac cgcaacctta ccagaggaag 180  
ccggcggcac agccgaatgc tatggaccaa ctggaggcca ttgtggagca gcagcagcag 240  
cgcgagctga aggagcagca ggagcaggcc aaggcaccgg tctacgtgcc tcccaggagg 300  
gtgaacgagt cgagcgagct gtacttcccc gacaactttg ctcttttcaa gagagcaagg 360  
ggtcgctcca ggggaggatt ggccgaggag gtggaggact aacagccgaa gcgctccttc 420

<210> 70

<211> 547

<212> DNA

<213> Drosophila melanogaster

<400> 70

aagcgtgcca gaaatggcaa cgacagttcg ggttcggact cgaattccag cagtccgcgc 60  
cagcaaggca gccctccagt gatctgtgag gatgcggctg cttgcgcagc tctctccggg 120  
tacactgtgg atcagctctc ggatctggcc agtcaactgc cagtgtctgag taacaacaat 180  
gctgtgggac ctaccggagt tagtggtggt ggcgatgcgg ataccaacaa tgtgaacacc 240  
actccccgtc agtgccctct tcgcttggtg ggcggtcagg aagtgatggg ccagtgccca 300  
gtgccgcaca atcaggcaat ggttcctgcc aaatgtccag tagcgcagtc agactctggg 360  
gattccttca gcgccaagag tggaaagtga ggggaatcgg ccaccactgc tcaactgtcca 420  
ctacagatgc ccgtgggaca ggacttcatg ggcgaaatgc cgtacgttaa caacgatgtg 480  
aaggtatcct ttgcccgaagc tggaaagtgt ccagtgactg gcggtgtggc aggagcatca 540  
gcttcta 547

<210> 71

<211> 605

<212> DNA

<213> Drosophila melanogaster

<400> 71

atgaatcctc tggacaaaat acacgctcta gatgagatcg aaaaggagat aatcctgtgc 60  
atgcaaagtg caggacaagc cttgcaggag ttgggcaagg aaaagtcttc ccagaaaaat 120  
gcccagaccc agtcgcagca gtttctcaag agtctgtcca gcgtggaatc gaagctgtcc 180  
gagcagatca actacttgac ccagggtgcc acgggtcagc cacacgaggg ttccggctat 240  
gcatccgcca aagtgtctca aatggcttgg catcgcattc agcacgctag gtccagagtg 300  
cgtgaacttg aggaaactaa ggccaaacac tcacatgcag ctcgtcagca gttgaagcgt 360  
cacaggaaca tgccgcccgc cagcaacagc agcagcaaca acaacagcag cagcagcaac 420  
aacaacagat gcaacaggcg gcacaacagc agcaacaaca aaccggagga ggaaatgccg 480  
gcagcggaga tcatccctgg gcggagactc ctcaatgtca accaactaat cttgcgctat 540

ctttaagggt aagggtttta aatttttttag agtgcattcc gaaaaggcac attttgtcca 600  
ccaat 605

<210> 72

<211> 630

<212> DNA

<213> *Drosophila melanogaster*

<400> 72

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tagatccgac agcacagtca tgaaatcaga ccgagaagcc ggtcgtgccg attcgcgac 60
ctggcggggtc cattgctcgt cctcgtgcaa tcggacattg tattcctcct gattctcatt 120
tccatcggggt cgcgaccaga tgagcttcaa tccattgcca ataagcacia tatcgtggcc 180
acgctcatag ttgccatatg actccactat tagactgtac gacaggcggc caccgtacga 240
gaatagctgg ttgccagca cacttccct aagactccag tacttgggca gataggaggt 300
gtgctgttag gtatacatat tcctagatat gtcgggaatt aagttctcgg tgcctggac 360
agctccgctt tcgtctgtaa ttaatggtgc gttaagaata aagtcaccg gtattagctg 420
gcggtacaga gctgccgaac gacactggct ggccaatcca gagcagtagc actctttgca 480
gccatcctga ttttgagcag acagtccata ggttccaggc cggcattggc cgcattgatc 540
accaatcacg tttctcttgc acaggcattc gttgccgcgg caatcataga tgccctctat 600
ttggcaatag gccgtgcatt ccaaagtttg 630
```

<210> 73

<211> 638

<212> DNA

<213> *Drosophila melanogaster*

<400> 73

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taaagaccgc cattgctgaa gtgatgcgcg atgatattgg ttatggaaag aatcggactg 60
tcgaggtgcg aacagaggat gaagtaaccg ccgatatggg ggcacattcg catgccgcgc 120
tccatgctgc acatgtggcg cagcagccc atgtcgccc tgccgctgct atggagttgc 180
agcacagaag caaggaacca ccgccgccag agatcagtg gtcacgtaag acgcccacc 240
aatacgaggt ggtagacgcc agtggtcggc gtcagctgg cagtggttcc gtttcggttt 300
ccgttttcggg cgccaatagc caccattcgc cgtatcatcc accggcggcg gcctatgccc 360
ccagcaccta tgcttcccgc tacagcgcgc tgaatgtgcc cggtgccgcc ggtggattgc 420
caccgcacca gccgttgag ctagcccacc aggcggtggc accacctgg gcctttgcca 480
aggccaaggc agcgcagtc ctgagtgaac tgggtgcagt cgggtggggg gtgtcattgg 540
tggtggggcg cggctctgga ggaattgcag gcggaccagg tgggtgtctca gtcgggtgtc 600
gtgtaccggg cggcggcgga ccaggaagcg gtggctgc 638
```

<210> 74

<211> 629

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(629)

<223> n = A,T,C or G

<400> 74

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atcaatgctc tatgctacta tatcttgcc tttactataa ctgctcgag ctccgacgaa 60
caggaatgtc aggcctgcca atcagtgtcc tcggtcatca tgatgggtgct ccagtactcc 120
aacaatccag cgcattcatt ccagctcctg gagtgcctga tgactcttaa gcacaatgtc 180
```



```
gtcaaggaca tctctctgct tgtggcatac ggaaccgctg tttcccgac ctcggctgcc 240
aagctgctct tctactactg gccagccttt aacgccaatc tgttcgatcg caaagtccta 300
ctctccaaac taaccaatga cctagtgtccc ttcacctgcc aacgggagca ctgtccgaac 360
tccgggaatg cggaggcagc aaagggtgtg tacgaccaca gcattagcat cgcatacgcg 420
cccgaattgt caccgcccc tttacctgtg atcgagtgcg ccaacgagat tcatcgggag 480
cacggaagcc tggagtctcg cgacattctg catcccatgc agcaggatc gatgggtgtg 540
gaaaacaaga actgtcgctc caacgagaag tccgncttct tcatctgctt ttccacggag 600
tgtgccagct tcaatggcca ccatccgat 629
```

<210> 75

<211> 588

<212> DNA

<213> *Drosophila melanogaster*

<400> 75

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agagagacaa cgacacgaca cgacataagt gggggtgggg gatagcgaac gagcccatcc 60
agcaacaaac ttcgcgaacg gcggcgacga cgcgcaaac tcgactgaat tccaattcga 120
attcgggcac gctcagaagt accgttggag tgcagcgacg ccggcgatgg gtaaacaata 180
ataggaatgg ctaaagacgt gcggagccct tgcgtctctc cagcccccg ttcggaccct 240
cccccgctg ccgctcccg tccaaagaca cactctaca aagagctcaa ctgtttacac 300
acacacacac acacacagcg acggacacgg aagtgtgtat gggtgagacg taattaaagc 360
ttgaaaccga gtttacaaca acaacgagcc cgccagtcgc caccaccac cccacgccgc 420
acacccccct cgaagagccg aagtcgaagc aacagctaga agaagaggct taagagagag 480
agagagagag agagagagag agagcgggaa agagggaata ttggatactt cgcgcagaga 540
gaaaccccc acaacgagcg cagtttataa ataaaccttg ttcttttc 588
```

<210> 76

<211> 579

<212> DNA

<213> *Drosophila melanogaster*

<400> 76

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tttggttaac catttctttt tatataaaag taagtaaact aagaactaat cctaggcctg 60
caggaagtct ccgagattgc cacatatatt gtcgatttcc gcacatccc attgctccag 120
cgctgaaatg gcattggcga gggccacggg ttctttcagg gaatgggcct tcaaccatat 180
cctgccgttg actccacag cgatctcgta gggcagttcc cgggtaagag cggcgagaac 240
agggcagttt tcccgagca gcaccttcc cagattcagg ctgcacttga agaagaatcc 300
atcgatagac atgcaatcca cagctacgtg tggatcccga ttactctaac cttgtgcgaa 360
ggtcaatttt ccccaaaaa tataggaaac gtaccaggga aaacaacaaa aaagggaaag 420
cgcaccccc cactgaaaac cggcgagcac ctggaaacgc atacatataa aaggagagta 480
aatatacaaa ttggtagcac tttcgccgcc gtcttttaca cattcaagcc atgtcttgga 540
ccgcttcagt tttcttgagg acttacacca ctagcatga 579
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<210> 77

<211> 656

<212> DNA

<213> *Drosophila melanogaster*

<400> 77

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attatgttca gaaccttccg cccggagtca tcgaagtggg tgggtctccac atcaagaacc 60
agaccagccc tttgccacg tatatacaag aattcacgga gaagttcttc gacggcattg 120
tgtacatcaa tatgccctat attgagtata tgaatgacca gggattgaag gctatgtata 180
cgatgattca cggaaatccc aatgttgctt tcatttgga tgtggagcaa ctagagcagt 240
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tgccggccaa gaaaccaa atctgttgacgc ttcattgtgaa tcaatcacta cagcaagaca 300  
tcttggctat gcagtagctc aaggggttcc tgaatcatgg agatagtttc agtcttcagg 360  
aggcaattca ctatggagtg cccgtcgtcg tgcttcccct taaactagag gaatttaata 420  
atgcccacg tgtaattgaa cgcaacttgg gtgtgatgct tcagggtcaag gaatttaacc 480  
aaagctccct gtcggatgcc cttacgcgaa tcctggatga ggagcgtttc ataagtgtc 540  
tccaccaggc ccagttgaag ttccggaccc gtccgcaatc cgccctggaa ttggctgtat 600  
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<210> 78

<211> 549

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

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<400> 78

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ccgagttctt cgaggacttc atcgaggaga tgtccgtggt gcagtacctg aacgaggagc 480  
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<210> 79

<211> 486

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<213> Drosophila melanogaster

<400> 79

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<213> Drosophila melanogaster

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[illegible]